

JIRSA, M.

med ✓ Aggregation of bilirubin in some solvent-precipitant systems. Milan Jirsa and Blahoslav Sedláček (Statek fak. - nemocnice, Prague). *Chem. Listy* 50, 620-2 (1956). By the light-scattering method the degree of aggregation of bilirubin in dioxane-water medium was studied in connection with the intensity of the diazo reaction; it is supposed that the diazo reaction is due to the low-mol. form of bilirubin. *B. Jirsa*

2

14-00000  
JIRSA, M.

Clinical significance of the discovery of di- and monotaurobilirubin.  
Rev. Czech. M. 3 no.3:237-239 1957.

1. First Clinic of Internal Diseases, Charles University, Prague.  
Director: Prof. M. Netousek.

(BILIRUBIN, related cpds.

di- & monotaurobilirubin, clin. significance)

(BILE ACIDS AND SALTS

same)

JIRSOVA, V.; JANOVSKY, M.; JIRSA, M.

Results of thiocaprillic acid administration in therapy of severe hemolytic disease of newborn. Cesk. pediat. 13 no.7:620-624 Aug 58.

1. Ustav pro peci o matku a dite v Praze, prednosta pediatrickeho usku; prim. Dr. K. Polacek laborator patofysiologie krvetvorne soustavy a jater, I. interni klinika fakulty vseobecneho lekarstvi Karlovy univerzity, prednosta: prof. Dr. M. Netousek. V. J., UPMD, Praha-Podoli.

(ERYTHROBLASTOSIS, FETAL, ther.

thiocaprylic acid, statist. (Cz))

(CAPRYLATES, ther. use

thiocaprylic acid in fetal erythroblastosis, statist. (Cz))

JIRSA, M

NETOUSHEK, Milosh, [Netoušek, M.], prof., doktor; IRSA, Milan [Jirsa, M.],  
doktor (Chekhoslovakiya)

New concepts on bilirubin metabolism and the pathogenesis of  
jaundice [with summary in English]. Klin.med. 37 no.1:40-44 Ja '59.  
(MIRA 12:3)

1. Iz pervoy terapevticheskoy kliniki Karlova universiteta v Prago  
i laboratorii patofiziologii sistemy krovotvorenija pri pervoy te-  
rapevticheskoy klinike (dir. - prof. d-r. M. Netoushek).

(BILIRUBIN, metab.  
in jaundice (Rus))

(JAUNDICE, metab.  
bilirubin (Rus))

HOLY, J.; JIRASEK, A.; JIRSA, M.

Intestinal obstruction caused by a biliary calculus. Cas.lek.cesk.  
98 no.48:1476-1479 27 N '60.

1. I. interni klinika KU v Praze, prednosta prof.dr. M. Netousek.
- I. chirurgicka klinika KU v Praze, prednosta akademik A. Jirasek.  
(INTESTINAL OBSTRUCTION etiol.)  
(CHOLELITHIASIS compl.)

JIRASEK, Vaclav; JIRSA, Milan

Contribution to the problem of mesobiliviolin reaction. Cas.lek.  
cesk. 99 no.7/8:214-218 19 F '60.

1. I. interni klinika KU a Vyzkumna laborator pro patofyziologii  
krvetvorny a jater w Praze, prednosta prof. MU Dr. Milos Netousek.  
(BILIRUBIN chem.)

JIRSOVA, V.; JIRSA, M.; JANOVSKY, M.; HEJNA, A.

Synthesis of direct bilirubin by liver slices. Cas.lek.cesk. 99  
no.7/8:218-221 19 F '60.

1. Ostav pro peci o matku a dite v Praze, prednosta pediatrickeho  
useku prim. dr. K. Polacek. Laborator pro patofyziologii krvetvorne  
soustavy a jater v Praze, prednosta prof. dr. M. Netousek.  
(BILIRUBIN metab.)  
(LIVER metab.)

HOENIG, V.; JIRSA, M.; HOENIGOVA, J.

Excretion of bromsulphthalein and its metabolites into the bile in acute hepatitis, cirrhosis and hemolytic disease. Cas.lek.cesk 100 no.17:519-525 28 Ap '61.

1. I interni klinika a laboratore pro patofyzilogii krvetvorby a jater fakulty vseobecneho lekarstvi KU v Praze, prednosta prof. dr. V. Hoenig.

(LIVER FUNCTION TESTS)	(HEPATITIS diag)
(LIVER CIRRHOSIS diag)	(JAUNDICE, HEMOLYTIC diag)



JIRSA, M.

Chromatographic separation of rose bengal preparations. Cesk. farm.  
11 no.7:357-358 S '62.

1. Laborator patofyziologie krvetvorne soustavy a jater, Praha.  
(ROSE BENGAL) (CHROMATOGRAPHY)

RABAN, P.; JIRSA, M.

The distribution and metabolism of rose bengal-<sup>131</sup>I in rats.  
Physiol. Bohemoslov. 12 no.4:382-385 '63.

1. Institute of Biophysics, Medical Faculty and Laboratory  
for Haematology and Liver Diseases of the First Medical Clinic,  
Charles University, Prague.

(ROSE BENGAL) (IODINE ISOTOPES) (FLUORESCEINS)  
(CHROMATOGRAPHY) (URINE) (METABOLISM)

HYKES, P., JIRSA, M.

A simple method of column chromatography of bromsulphalein.  
Cesk. farm. 13 no.10:505-506 D '64

1. laborator pro patofysiologii krve, mo soustavy a jater  
fakulty vseobecneho lekarskeho Karlovy University, Praha.

HERINGOVA, A.; JIRSOVA, V.; JIRSA, M.

Bilirubin absorption by the intestines. Cesk. pediat. 19  
no.8:713-716 Ag '64.

1. Ustav pro peci o matku a dite v Praze (vedouci pediatrickeho  
useku doc. dr. K. Polacek, CSc.) a Laborator patofyziologie  
krvetvorne soustavy a jater I. interni kliniky fakulty vseobec.  
neho lekarstvi Karlovy University v Praze (prednosta prof. dr.  
V. Hoenig, DrSc.).

HERINGOVA, A., JIRSA, M.; JIRSOVA, V.

Bile pigments in the feces of newborn infants and small children  
and their relation to diet. Cesk. pediat. 19 no.12:1090-1093  
D ' 64.

1. Ustav pro peci o matku a dite v Praze (reditel doc dr.  
M. Vojta; vedouci pediatricke casti doc. dr. K.Polacek, CSc.)  
a I. interni klinika fakulty vseobec. lekarstvi Karlovy University  
v Praze (prednosta prof. V.Hoenig, DrSc.).

HERINGOVA, A.; JIRSA, M.; JIRSOVA, V.

Isolation of urobilinoid in infant feces and a study of its properties. Cas. lek. cesk. 103 no.41:1132-1135 9 0 '64.

1. Ustav pro peci o matku a dite Praha-Podoli (reditel doc. dr. M. Vojta, vedouci pediatrickeho vyzkumu doc. dr. K. Polacek, CSc) a I interni klinika fakulty vseobecneho lekarstvi Karlovy University v Praze (prednosta prof. dr. V. Hoenig, DrSc).

JIRSA, M.; RABAN, P.; GREGORA, V.

Adsorption chromatography of water-soluble dyes used in biology and medicine. Cas. lek. cesk. 104 no.7:195-197 19 F'65.

1. Laborator pro patofyziologii krvetvorne soustavy a jater fakulty vseobecneho lekarstvi Karlovy University v Praze pri I. interni klinice, (prednosta: prof. dr. V. Hoenig); Bio-fyzikalni ustav fakulty vseobecneho lekarstvi Karlovy University v Praze (prednosta: doc. dr. Z. Dienstbier).

HYKES, P.; JIRSA, M.; HOENIG, V.

Metabolism of a halogen analogue of bromsulphalein in rats.  
Sborn. lek. 67 no.10:294-297 0 '65.

1. Laborator pro patofyziologii krevetvorby a jater pri I.  
interni klinice fakulty vseobecneho lekarstvi University  
Karlovy v Praze (prednosta prof. dr. V. Hoenig, DrSc.).



HYKES, P.; JIRSA, M.; HOENIG, V.

Chromatography of commercial bromsulphalein preparations.  
Cas. lek. Cesk. 104 no.43:1193-1194 29 0 '65.

1. Laborator pro patofyziologii krvetvorby a jater pri I. interni  
klinice fakulty vseobecneho lekarstvi Karlovy University v Praze  
(prednosta prof. dr. V. Hoenig, DrSc.).

CZECHOSLOVAKIA

HYKES, P.; JIRSA, M.; HOENIG, V.; Laboratory of Pathophysiology of Blood Formation System and Liver Diseases, Faculty of General Medicine, Charles University (Laborator pro Patofysiologii Krvetvorne Soustavy a Jater Fakulty Vseobecneho Lekarstvi KU), Prague.

"Thin-Layer Chromatography of Bromsulphalein and of its Lower Sulfonated Derivatives Using Aluminum Oxide."

Prague, Ceskoslovenska Farmacie, Vol 15, No 4, May 66, pp 210-211

Abstract [Authors' English summary]: A simple method of thin-layer chromatography on aluminum oxide using a mixture of 10% ammonia and water in proportion of 2:1 as eluent is described. The method is suitable for the separation of phthalein derivatives sulfonated to different degrees and for the study of their metabolites. 2 Figures, 3 Western, 3 Czech references. (Manuscript received 2 Aug 65),

1/1

- 63 -

KUCEROVA, L.; HOENIG, V.; JIRSA, M.; SPONAROVA, J.; 1st Internal Clinic, Faculty of General Medicine, Charles University (I. Interni Klinika Fak. Vseob. Lek. KU), Prague and 1st Internal Clinic (Laborator pro Patofysiologii Krvetvorby a Jater pri I. Interni Klinice), Chief (Prednosta) Prof Dr V. HOENIG.

"Albuminemia in Liver Disease Established by the Bromosulphalein Method."

Prague, Casopis Lekarů Ceskyh, Vol 106, No 7, 17 Feb 67, pp 184 - 186

Abstract [Authors' English summary modified]: Albuminemia was investigated by the BSP method, by electrophoresis, bilirubemia, and by the concentration of non-esterified fatty acids in the plasma of 50 patients suffering from liver diseases. In some cases the BSP method gave lower results than electrophoresis. This can be explained by formation of a bond between albumin and fatty acid. It is more pronounced in hypoalbuminemia. Existence of a factor causing deterioration of the BSP bond to plasma albumin is probable. 1 Figure, 8 Western, 4 Czech references. (Manuscript received June 1966).

1/1

JIRSAK, Jaroslav

Prague, Czechoslovakia

"Antifungal Properties of Organic Polysulphides from Cabbage," by Ludek JIROUSEK and Jaroslav JIRSAK, Endocrinological Institute, Prag 11, Narodni 8.

SOURCE: Die Naturwissenschaften, 15 Aug 56, Unclassified.

JIRSAK, J.

Effect of methyl-2-thiouracil on growth *Leuconostoc mesenteroides*. p. 69.

FOLIA MICROBIOLOGICA. (Ceskoslovenska akademie ved) Praha, Czechoslovakia. Vol. 4,  
no. 2, 1959.

Monthly list of East European Accessions (EEAI), LC, Vol. 8, no. 12, December 1959,  
Uncl.

Jirsak, K,

Replacement of lead cable sheaths. p. 267. ELEKTROTECHNICKY  
OBZOR. (Ministerstvo paliv a energetiky) Praha. Vol. 45, no. 5,  
May 1956.

Source: EEAL IC Vol. 5, No. 10 Oct. 1956

JIRSAK, M.

"Size of the fractions of crushed stone." (p. 322). STAVIVO (Ministerstvo  
stavbnich hmot) Praha, Vol 31, No 11, Nov. 1953.

SO: East European Accessions List, Vol 3, No 8, Aug 1954

JIRSAK, M.

A new standard for concrete construction. p. 159. INŽENYRSKE STAVBY.  
(Ministerstvo stavebnictví) Praha. Vol. 4, no. 7, Apr. 1954.

SOURCE: East European Accessions List, Vol. 5, no. 9, September 1956

JIRSAK, MIROSLAV

Slozky a skladba dobreho betonu. [Vyd. 1.] Praha, Státní nakl. technické literatury. 1957. 159 p. [Components and composition of a good grade of concrete. 1st ed. illus., bibl., diags., footnotes, graphs, index, tables -/

SO: Monthly List of East European Accessions (EEAL) LC, Vol. 6, no. 10, October 1957. Uncl.



~~MIROSLAV~~ JIRSAC, M.

CZECHOSLOVAKIA / Chemical Technology. Chemical Products and H  
Their Application. Ceramics. Glass. Binding  
Materials. Concretes.

Abs Jour: Ref Zhur-Khimiya; No 19, 1958, 65220

Author : Jirsak Miroslav

Inst : -

Title : The Czechoslovakian-Polish Scientific Conference  
on the Technology of Concrete

Orig Pub: Inzen. stavby, 1958, 6, No 1, 46-50

Abstract: No abstract.

Card 1/1

JIRSAK, Miroslav, inz., dr.

Czechoslovak-Polish scientific conference on the technology  
of concrete. Inz stavby 6 no.1:46-50 Ja '58.

Country : Czechoslovakia  
Category :

H-13

46653

Abs. Jour. :

Author : Jirsak, M.; Sloupensky, J.

Institut. :  
Title : Investigation of Effectiveness of Internal  
Vibrators by Means of Radioactive Isotopes

Orig Pub. : Inzen. stavby, 1958, 6, No 10, 530-534

Abstract : Description of a method of determining the densi-  
ty of concrete by means of gamma-radiation, making use of  
the radioactive isotope Co<sup>60</sup>. -- Ya. Satuncvskiy.

Card:

JIRSAK, M.

"An experimental roadway of slag concrete"

p. 3 (Silnice) Vol. 7, no. 1, Jan. 1958.  
Prague, Czechoslovakia

SO: Monthly Index of East European Accessions (EEAI) LC. Vol. 7, no. 4,  
April 1958

METHODS

CZECHOSLOVAKIA

KUCEROVA, L.; HOENIG, V.; JIRSA, M.; FAVIAN, E.; 1st Internal Clinic, Faculty of General Medicine, Charles University (I. Interni Klinika Fakulty Vseobecneho Lekarstvi KU), Prague, Head (Prednosta) Prof Dr V. HOENIG; Laboratory for Pathophysiology of Blood Formation and Liver Diseases at the 1st Internal Clinic (Laborator pro Patofysilogii Krvetvorby a Jater pri I. Interni Klinice), Head (Prednosta) Prof Dr V. HOENIG.

"Determination of Albuminaemia by Means of the Sulfochromophthalein Method in Icteric Sera."

Prague, Casopis Lekarů Ceských, Vol 105, No 19, 13 May 1966, pp 515-516

Abstract: The property of albumin to form a bond with sulfobromophthalein can be used in the determination of albumin; with increasing concentration of albumin the extinction of the added sulfobromophthalein decreases; albumin binds more of the colorless part of the sulfobromophthalein, and a new equilibrium between the colored and colorless parts of sulfobromophthalein is formed. The values found by this method correspond to those found by the electrophoresis method. 1 Figure, 7 Western, 2 Czech references.

1/1

JIRSAK, Zdenek

Cistení odpadních vod. (Purification of Waste Water. 1st ed. illus., bibl., tables) Prague, Dopravní nakl., 1957. 126 p.

Basic knowledge on the purification of waste water and the appropriate installations.

Bibliografický katalog, CSR, České knihy, No. 32, 17 Sept. 57, p. 682-83

JIRSAK, Z.

A report on the activities of the railroad section of the Czechoslovak Scientific Technical Society for Transportation.

p. 308 (Železniční Technika. Vol. 5, no. 11, Nov. 1957, Praha, Czechoslovakia)

Monthly Index of East European Accessions (EEAI) LC. Vol. 7, no. 2,  
February 1958

*ILR DHA, KOSINA*  
KOSINA, Vladimir, inzhener; IRSAK, Zdenek [Jirsak, Zdenek], inzhener.

New equipment on Czechoslovak railroads. Zhel. dor. transp. 39  
no.5:17-24 My '57. (MLRA 10:6)

1. Zamestitel' nachal'nika TSentral'nogo tekhnicheskogo otdela  
Ministerstva transporta (for Kosina). 2. Nachal'nik sektora  
TSentral'nogo tekhnicheskogo otdela Ministerstva Transporta  
(for Irsak).

(Czechoslovakia--Railroads--Equipment and supplies)



JIRSAKOVA, A.

CZECHOSLOVAKIA

JIRSAKOVA, A; LORENC, J.

1. Faculty Transfusion Station UNV-KNV (Fakultni transfuzni stanice UNV-KNV), Prague; 2. Surgical Clinic of the Faculty of Hygiene (Chirurgicka klinika Hyg. fak. KU), Prague (for all)

Prague, Vnitřní lékařství, No 4, 1963, pp 327-334

"Response of the Body to Blood Transfusion from the Immunologic Viewpoint. I. Changes in the Level of Properdin, Complement and its Components."

JIRSÁKOVÁ, A.

Czechoslovakia

Faculty Transfusion Station UNV-KNV -- Prague  
(Fakultní transfusní stanice UNV-KNV -- Praha);  
Head: J. MĚŠT'AN, MD

Prague, Vnitřní lékařství, No IX-2, 1963, pp 179-184

"A Study of Some Nonspecific Immunologic Factors in  
Conserved Blood (Properdin, complement and its  
components)."

JIRSAKOVA, Anna

SURNAME, Given Names

Country: Czechoslovakia

Academic Degrees: RNDr

Affiliation: Faculty Transfusion Station UNV-KNV /Ustredni narodni vybor-Kraj-  
sky narodni vybor; Central People's Committee-Kraj People's Commi-  
tte/ Fakultni transfuzni stanice UNV-KNV, Prague 10; Director:

Source: J. MISTAN, MD.

Source: Prague, Prakticky Lekar, Vol 41, No 10, 1961, pp 480.

Data: "Experience With Cardiolipide-Flocculation Antibody."

670 181643

VOJTISKOVA, Marta; VIKLICKY, V.; JIRSAKOVA, Anna; NOUZA, K.;  
POKORNA, Zora

Amethopterin treatment of experimental allergic aspermatogenesis  
in mice and morphological changes of lymphoid organs. Folia biol.  
(Praha) 11 no.5:364-370 '65.

1. Institute of Experimental Biology and Genetics, Czechoslovak  
Academy of Sciences, Prague.

RABAN, P.; JIRSKA, M.; GREGORA, V.

Deiodination of rose bengal  $^{131}\text{I}$  in vitro by rat organ homogenates.  
Physiol. Bohemosl. 13 no.5:462-466 '64.

1. Department of Biophysics, Faculty of General Medicine, and  
Laboratory for Haematology and Liver Diseases, First Medical  
Clinic, Charles University, Prague.

JIRSOVA, B.

75th anniversary of Sbornik Lekarsky. Sborn. lek. 66; no. 1:  
1-5 Ja '64.

JIRSOVA B.

VACLAVIK, A.; ZAJICOVA, B.; JIRSOVA, B.

[Contribution of the Red Cross to health protection and education]  
Ceskoslovensky Cerveny kruz pomaha zdravotnicke praci a osvete.  
Zdravot.rev. 25 no.3:59-62 31 Ma '50. (CIML 19:1)

MILOVA, A.; BALIK, S. ; JISOVA, H.

Changes in the adaptation width of the visual analyser produced by reading Landolt panels in subjects of different age.  
Activ. nerv. sup. (Praha) 7 no.22175-176 '65



JIRSA, M.; RASKA, B.; JIRSOVA, V.

Determination of  $\gamma$ -globulin. Cas. lek. cesk. 90 no. 10:315-317 9 Mar  
1951. (CJML 20:7)

1. Of the Laboratory of Masaryk Sanatorium for Children and of the  
Central Laboratory of the State District Hospital in Prague.

Jirsová, Věra

The preparation of standard curves with colloidal bilirubin. Milan Jirsa and Věra Jirsová (J. in. chem. 1962).  
 Casopis Lékař. Čechosk. 54, 1080-81 (1962). The use of  
 bilirubin (I) standards dissolved in CCl<sub>4</sub> / KOH mixt. is  
 considered unsatisfactory owing to rapid oxidation (espe-  
 cially in the presence of light), possible catalytic activity of  
 I oxidation products, and frequent pptn. of I. Colloidal  
 dispersions of I, stabilized with saponin (II) behave in the  
 same way as indirect. I in the diazo reaction and have been  
 found stable for several days irrespective of illumination.  
 Five mg. I is placed in a 50-ml. calibrated flask, 10-15 ml.  
 0.1N NaOH and 100 mg. II are added. The resulting brown  
 soln. is immediately treated with 0.3 ml. AcOH and the  
 yellow colloidal soln. is then made to 50 ml. with 0.1N  
 NaOH. This soln. (pH 5) is dild. with an equal vol. of  
 NaOAc buffer (50 ml. 0.1N NaOH + 0.3 ml. AcOH, pH  
 5) to 5 mg. % I; 1-4 mg. % concns. are obtained by further  
 dildg. with the same buffer. Known methods of I detn. can  
 be used. Linear calibration curves remain unchanged even  
 after 40 days in the refrigerator; only 4% decrease was  
 noted after 4 days in sunlight at room temp. A. H.

JIRSOVA, V.

JIRSOVA, V.

Neurological manifestations in newborn and their characteristics.  
Cesk. pediat. 11 no.11:819-830 Nov 56.

1. Ustav pro peci o matku a dite v Praze-Podoli, red. prof.  
Dr. J. Trapl, prednosta pediater useku doc. Dr. K. Kubat.  
    (NERVOUS SYSTEM, physiol.  
      neurol. manifest. in newborn (Cz))  
    (INFANT, NEWBORN, physiol.  
      neurol. manifest. (Cz))

*Jirsova, V.*

ZNAMENACEK, K.; JIRSOVA, V.

Neurological examination of the newborn with CNS trauma.  
Cesk. pediat. 11 no.11:830-831 Nov 56.

1. UPMD Praha-Podoli.. Reditel prof. Dr. J. Trapl. Vedouci  
pediatrickeho uaeu: doc. K. Kubat.

(CENTRAL NERVOUS SYSTEM, wds & inj.

in newborn, diag. methods (Cz))

(INFANT, NEWBORN, dis.

CNS inj., diag. methods (Cz))

Jirsova V

JIRSOVA, V., Dr. (Praha-Podoli, Nabr. K. Marxe 157.)

~~Kernicterus~~. Cesk. pediat. 13 no.1:59-63 5 Jan 58.

1. Ustav pro peci o matku a dite v Praze, prednosta pediatrickeho useku  
prof. Dr K. Kubat.

(ERYTHROBIASIS, FETAL,  
kernicterus, review (Cz))

JIRSOVA, V.; JANOVSKY, M.; JIRSA, M.

Results of thiocaprillic acid administration in therapy of severe hemolytic disease of newborn. Cesk. pediat. 13 no.7:620-624 Aug 58.

1. Ustav pro peci o matku a dite v Praze, prednosta pediatrickeho useku; prim. Dr. K. Polacek laborator patofysiologie krvetvorne soustavy a jater, I. interni klinika fakulty vseobecneho lekarstvi Karlovy univerzity, prednosta: prof. Dr. M. Netousek. V. J., UPMD, Praha-Podoli.

(ERYTHROBLASTOSIS, FETAL, ther.

thiocaprylic acid, statist. (Cz))

(CAPRYLATES, ther. use

thiocaprylic acid in fetal erythroblastosis, statist. (Cz))

KUNC, Zdenek; JIRSOVA, Vera; BRACHFELD, Karel

Growth-fracture of the temporal bone in an infant. Cesk. pediat.  
15 no.2:140-144 F '60.

1. Neurochirurgická klinika KU v Praze, přednosta doc. dr.  
Zdenek Kunc, Ústav pro péči o matku a dítě v Praze-Podolí,  
primář dr. Karel Polacek, II. dětská klinika KU v Praze, před-  
nosta prof. dr. Josef Houstek.

(TEMPORAL BONE fract. & disloc.)

JIRSOVA, V.; JIRSA, M.; JANOVSKY, M.; HEJNA, A.

Synthesis of direct bilirubin by liver slices. Cas.lek.cesk. 99  
no.7/8:218-221 19 F '60.

1. Ostav pro peci o matku a dite v Praze, prednosta pediatrického  
useku prim. dr. K. Polacek. Laborator pro patofyziologii krevetvorne  
soustavy a jater v Praze, prednosta prof. dr. M. Netousek.  
(BILIRUBIN metab.)  
(LIVER metab.)



HERINGOVA, A.; JIRSOVA, V.; JIRSA, M.

Bilirubin absorption by the intestines. Cesk. pediat. 19  
no.8:713-716 Ag '64.

1. Ustav pro peci o matku a dite v Praze (vedouci pediatrickeho  
useku doc. dr. K. Polacek, CSc.) a Laborator patofyziologie  
krvetvorne soustavy a jater I. interni kliniky fakulty vseobec-  
neho lekarstvi Karlovy University v Praze (prednosta prof. dr.  
V. Hoenig. DrSc.).

HERINGOVA, A., JIRSA, M.; JIRSOVA, V.

Bile pigments in the feces of newborn infants and small children  
and their relation to diet. Cesk. pediatri. 19 no.12:1090-1093  
D ' 64.

1. Ustav pro peci o matku a dite v Praze (reditel doc dr.  
M. Vojta; vedouci pediatricke casti doc. dr. K.Polacek, CSc.)  
a I. interni klinika fakulty vseobec. lekarstvi Karlovy University  
v Praze (prednosta prof. V.Hoenig, DrSc.).

CZECHOSLOVAKIA

JIRSOVA, V., KOLDOVSKY, O., HERINGOVA, A; Institute of Care for Mother and Child, Physiological Institute, Czechoslovak Academy of Sciences (Ustav pro Peci o Matku a Dite, Fysiologicky Ustav CSAV), Prague.

"Activity of Beta-Glucuronidase in Liver of Young Mammals."

Prague, Ceskoslovenska Fysiologie, Vol 15, No 2, Feb 66, pp 90-91

Abstract: Beta-glucuronidase activity in newborn rats is substantially lower than in adult animals. In guinea pigs the activity is highest and decreases before it levels off after 24 days. In rabbits the activity increases in the first 3 days, then levels off. In mice it does not change. 1 Figure, 6 Western, 2 Czech references. Submitted at "16 Days of Physiology" at Kosice, 29 Sep 65.

1/1

HERINGOVA, A.; JIRSA, M.; JIRSOVA, V.

APPROVED FOR RELEASE: 08/10/2001

CIA-RDP86-00513R000619630003-3"

1. Ustav pro peci o matku a dite Praha-Podoli (reditel doc. dr. M. Vojta, vedouci pediatrickeho vyzkumu doc. dr. K. Polacek, CSc) a I interni klinika fakulty vseobecneho lekarstvi Karlovy University v Praze (prednosta prof. dr. V. Hoenig, DrSc).

KOLDOVSKY, O.; HERINGOVA, A.; JIRSOVA, V.

Activity of  $\beta$ -glucosidase in the jejunum and ileum of the rat during postnatal development. *Physiol. Bohemoslov.* 14 no.3: 228-232 '65.

1. Institute of Physiology, Czechoslovak Academy of Sciences and Institute for the Care of Mother and Child, Prague.

(6)

CZECHOSLOVAKIA/EAST GERMANY

HERINGOVA, A., KOLDOVSKY, O., NOACK, R., SCHENK, G., JIRSOVA, V.,  
BRANA, H., CHYTIL, F., FRIDRICH, M., Institute for Care of  
Mother and Child, Physiological Institute, Microbiological  
Institute, Czechoslovak Academy of Sciences (Ustav pro Peci o Matku  
a Dite, Fysiologicky Ustav, Mikrobiologicky Ustav CSAV) Prague;  
Nutrition Institute (Institute fur Ernahrung) Rehbrucke.

"Activity of Beta-Galactosidase of Jejunum Homogenate and Isolated  
Fractions of Microparticles in 14 Day Old Rats."

Prague, Ceskoslovenska Fysiologie, Vol 15, No 2, Feb 66, pp 89-90

Abstract: The jejunum homogenate has maximum activity at pH 3.5,  
the microparticle fraction at pH 5.5. It appears that two  
beta-galactosidases are present in the jejunum. The two show  
different affinity for various substrates. 1 Figure, 4 Western,  
1 Czech reference. Submitted at "16 Days of Physiology" at  
Kosice, 29 Sep 65.

1/1

CZECHOSLOVAKIA

HOSKOVA, J., ~~KOLDOVSKY, O.~~, HERINGOVA, A., JIRSOVA, V., CHYTIL, P.;  
Physiological Institute, Czechoslovak Academy of Sciences,  
Institute of Care for Mother and Child, and Microbiological  
Institute, Czechoslovak Academy of Sciences (Fysiologicky Ustav  
CSAV, Ustav pro Peci o Matku a Dite a Mikrobiologicky Ustav CSAV)  
Prague.

"Activity of Beta-Galactosidase in Jejunum and Ileum of Guinea  
Pigs, Mice and Rabbits in Postnatal Development."

Prague, Ceskoslovenska Fysiologie, Vol 15, No 2, Feb 66, p 90

Abstract: The optimum activity in mice is at pH 3.5, guinea pigs  
and rabbits have two optimums, one at pH 3.5, the other at 5.5.  
Changes in the activity due to the age of the animals are des-  
cribed. 1 Western, 2 Czech references. Submitted at "16 Days  
of Physiology" at Kosice, 30 Sep 65.

1/1

- 164 -

KRAUS, R.; VACEK, Z.; JIRSOVA, Z.

On the decidual transformation of the oviduct mucosa. Cesk.  
morf. 12 no.1:74-84 '64.

1. Embryologicky ustav lekarske fakulty University Karlovy  
v Praze; prednosta doc. MUDr. Z. Vacek.

JIRSOVA, Z.

Cytological and cytochemical changes of the chorion in tubal pregnancy. Cesk. morf. 13 no.2:123-130 '65

1. Institute of Embryology, Faculty of Medicine, Charles University, Prague.



JIRU, E.

Staffa, E. How to keep all personal safety devices in order. p. 617.  
TECHNICKA PRACA, Bratislava, Vol. 6, no. 10, Oct. 1954.

SO: Monthly List of East European Accessions, (EEAL), IC, Vol. 5, No. 6,  
June 1956, Uncl.

JIRU, H. - Vol. 3, no. 1, Jan. 1955, STROJIRENSKA VYROBA

A suit for working with heat. p. 38.

80: Monthly list of East European Accessions, (REAL), LC, Vol. 4, No. 9, Sept. 1955  
Uncl.

JIRU,E.

Personal safety of workers in the power industry. p.310

ENERGETIKA. (Ministerstvo paliv a energetiky. Hlavní správa  
elektaren) Praha

Vol. 5 no. 8, Aug. 1955

East European Accessions List

Vol. 5 No. 1

Jan. 1956

APPROVED FOR RELEASE: 08/10/2001

CIA-RDP86-00513R000619630003-3"

CZECHOSLOVAKIA / Cultivated Plants. Grains.

M-3

Abs Jour: Ref Zhur-Biol., 1958, No 16, 72873.

Author : Jiru, Jarmila.

Inst : Not given.

Title : Measuring Grain Moisture and Air Moisture in a  
Grass-Stand of Grain Crops.

Orig Pub: Meteorol. zpravy, 1957, 10, No 2, 41-44.

Abstract: No abstract.

Card 1/1

JIRU, Jiri; STRASLIPKA, Miloslav

Standards of fuel consumption for road machines. Siln doprava 11 no.2:  
24-25 F '63.

1. Ustav normovani ve stavebnictvi.

JIRU, PAVEL

CZECH

Working conditions of the fluidizing catalytic converter for  
pyrite. D. Singer, Jan Benovsky, and Petr Jirou, *Chem.  
Průmysl* (1965), No. 2, 60-3 (1965). A method for determining  
optimal operating conditions for the fluidizing pyrite converter,  
based on experiments and observations of existing installation  
of this type.

JIRU, P.; SINGER, D.; BENOVSKY, J.

Work conditions of the fluidization roasting furnace. p. 478.  
CESKOSLOVENSKY HORNIK. (Ministerstvo paliv a Svaz zamestnancu v  
hornictvi) Praha. Vol. 5, no. 11, Nov. 1955.

SOURCE: East European Accessions List, Vol. 5, no. 9, September 1956

JIRU, P.

The development of lumber-drying kilns for temperatures lower than 100° C.  
p. 195. (DREVARSKY VYSKUM, Vol. 1, No. 1/2, Oct 1956, Bratislava,  
Czechoslovakia)

SO: Monthly List of East European Accessions (EEAL) LC, Vol. 6, No. 12, Dec 1957. Uncl.



*JIRU P.*  
CZECHOSLOVAKIA/Physical Chemistry - Kinetics, Combustion.  
Explosives, Topochemistry, Catalysis

B-9

Abs Jour : Referat Zhur - Khimiya, No 2, 1957, 3855

Author : Danes V., Jiru P.

Title : Highly Active Mixed Nickel-Magnesium Oxide Catalyst.  
Preliminary Communication.

Orig Pub : Chem. listy, 1956, 50, No 2, 302-304; Sb. chekhosl. khim.  
rabot, 1956, 21, No 3, 765-767

Abstract : Description of the preparation of a mixed catalyst (C) by  
decomposition of a mixture of oxalates of Ni and Mg, pre-  
cipitated from solutions of the nitrates of both elements  
with oxalic acid, and decomposed in a high vacuum at 430°  
for 10 hours. In the same unit was determined the activi-  
ty of the catalyst during hydrogenation of a current of  
C<sub>6</sub>H<sub>6</sub>. Surface of the fully decomposed C containing only  
Ni (24%) and MgO, calculated by the BET method, is of  
466 m<sup>2</sup>/g. With an amount of catalyst corresponding to

Card 1/2

- 145 -

JIRU, P.

Hygrostats. p.103.

(Drevarsky Vyskum, Vol. 2, No. 1, Apr. 1957, Bratislava, Czechoslovakia)

SO: Monthly List of East European Accessions (EEAL) LC. Vol. 6, No. 9, Sept. 1957. Uncl.

CZECHOSLOVAKIA / Chemical Technology. Chemical Products H  
and Their Applications. Elements. Oxides. Mineral  
Acids, Bases, Salts.

Abs Jour: Ref Zhur-Khimiya, 1959, No 4, 12327.

Author : Jiru, Pavel; Brull, Julius.

Inst : ~~Not given.~~

Title : Surface Structure of Native Silica Gel Carriers  
and Catalysts for Oxidation of Sulfur Dioxide.

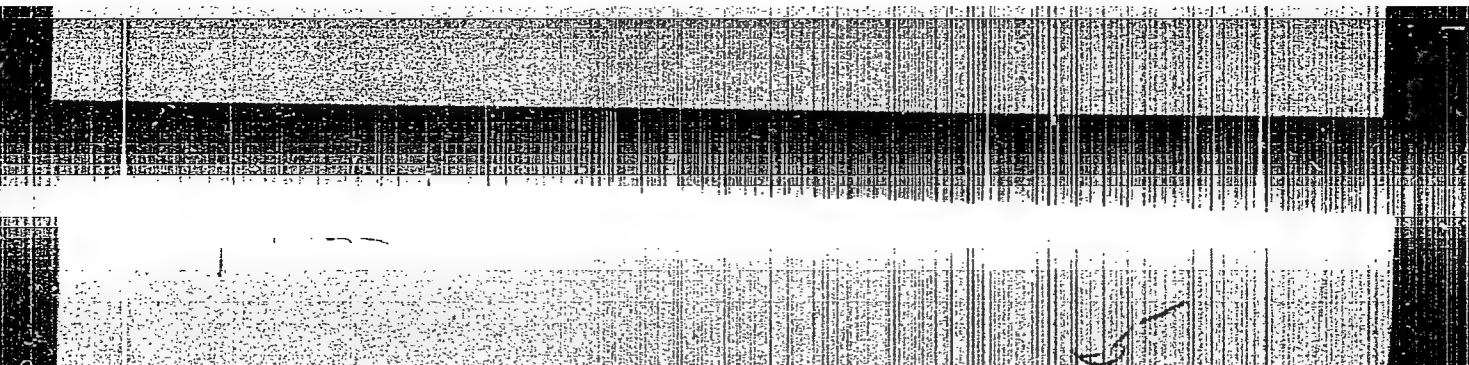
Orig Pub: Chem. prumysl, 1957, 7, No 12, 652-654.

Abstract: The possibility is investigated of obtaining from  
infusorial earth (IE) a catalyst or catalyst car-  
rier by means of working the surface of IE. It  
was established that the addition of soluble salts  
favorably influences the surface structure of a  
carrier of IE Type SK. The process of vanadization  
of the catalysts obtained from IE of LM and SK qual-  
ities was investigated. Bib. 6 titles. -- I. Yelinek.

Card 1/1

**"APPROVED FOR RELEASE: 08/10/2001**

**CIA-RDP86-00513R000619630003-3**



**APPROVED FOR RELEASE: 08/10/2001**

**CIA-RDP86-00513R000619630003-3"**

*JIRU, P.*  
CZECHOSLOVAKIA / Laboratory Equipment, Apparatus, Their Theory, Construction and Application. F

Abs Jour: Ref Zhur-Khimiya, No 18, 1958, 60802.

Author : Pavel Jiru, Milos Ralek, Karel Chabek.

Inst : -

Title : All-Glass Magnetic Pump for Gas Circulation.

Orig Pub: Chem. listy, 1957, 51, No 9, 1770-1772.

Abstract: An all-glass gas circulation laboratory pump is described; it is used at the study of reaction kinetics in gaseous phase. The electromagnets setting the piston into movement are controlled by an electronic device. The arrangement of electronic devices with thyratrons of electronic

Card 1/2

CZECHOSLOVAKIA / Physical Chemistry. Surface Phenomena. B  
Adsorption Chromatography. Ion Ex-  
change.

Abs Jour: Ref Zhur-Khimiya, 1958, No 24, 30891.

Author : Jiru P., Brull J.

Inst : Not given.

Title : Determination of Surface Area and of Structure  
of Kieselguhrs by Measuring Physical Adsorption  
of Nitrogen and True and Bulk Densities.

Orig Pub: Chem. listy, 1957, 51, No 12, 2189-2194.

Abstract: A number of Czechoslovakian kieselguhrs (I) were  
analyzed by measuring their specific surface  
areas, by performing roentgenographical analy-  
ses, densities, bulk densities (with the aid of  
He and Hg), and detailed chemical analyses. The  
obtained results were compared with similar data  
from literature given for several European and

Card 1/2

37

JIRU, PAVEL.

27 27  
 An active platinum-silica gel catalyst. Pavel Jirů and  
 Vladimír Jára (Výzkumný ústav anorg. chem., Čadca, Czech.). Chem. listy 52, 1842-3 (1958). Making 600 ml.  
 pure 3.6%  $\text{SiO}_2$  sol with 0.33 ml. 10%  $\text{H}_2\text{PtCl}_6$  soln., letting  
 the solidified jelly stand 12 hrs., cutting the slab into cubes  
 $3 \times 3 \times 3$  cm., and drying at  $100^\circ$  gives a catalyst contg.  
 0.18% Pt, 0.01% Cl<sup>-</sup> and only traces of Ag, Cu, Fe, K,  
 and Na; the catalyst has a surface 690 sq. m./g. and a high  
 activity in the  $2\text{H}_2 + \text{O}_2$  reaction. J. Ullrich

VIRU, P.

reports to be presented at the 2nd Intl Congress on Catalysis, Paris, France, 4-9-Jul '60.

#### Czechoslovakia

- BERANEK, I., and MAZUREK, V. - "The mechanism of the oxidation of alcohols on alumina" (Section II)
- DAVIES, V. - "Study of the characteristics of  $\gamma$ - $\text{Al}_2\text{O}_3$  powder catalysts during their formation. Nickel catalysts." (Section II)
- JIRAS, C. - "Release of radioactive inert gases from surface labeled platinum during catalytic and surface reactions" (Section II)
- JIRAS, P., and JIRAS, V. - "The influence of alkali metal sulfates on the activity of vanadium pentoxide in the catalytic oxidation of sulfur dioxide" (Section II)
- KRATOCHVIL, Z., and MAZUREK, V. - "Investigation of the mechanism of the oxidation of carbon monoxide on nickel oxide" (Section II)
- KRATOCHVIL, Z., and MAZUREK, V. - "Contribution to the clarification of reasons for catalytic activity on  $\text{Fe}_2\text{O}_3$  mixed catalytic agents" (Section II)
- KOVACOVA, J. - "Thermal decomposition of some oxalates" (Section II)
- POREK, V., and KUC, Z. - "Adsorption on evaporated metal films" (Section II)
- SEK, M. - "Magnetic investigations of nickel metal catalysts" (Section II)
- SHUTTER, E., VALIN, P., de JONCK, J. - "The oxidation of aliphatic esters in a catalytic bed of porous oxides" (Section III)
- VAL, J., and KUC, Z. - "Tracer studies on catalytic styrene oxidation" (Section I)
- VAL, J., KUC, Z., and KUC, Z. - "Influence of the defect structure of support on the activity of catalyst" (Section II)
- SEK, E. G., and MAZUREK, V. - "Mechanism of the influencing of nitric oxide in the thermal decomposition of propionic aldehyde" (Section I or II)

#### Hungary



JIRU, P.

Distr: 4E2c

5

A thermogravimetric study of the thermal decomposition of the bisulfates of alkali metals. D. Tomková, P. Ilgner and J. Rosický (Výzkumný ústav anorg. chemie, Džb. H. A. Czech.). Collection Czechoslov. Chem. Commun. 25: 1857-9 (1960).—The decomposition temps. of the hydrogen sulfates and pyrosulfates according to the reactions  $MHSO_4 \rightarrow M_2S_2O_7$  and  $M_2S_2O_7 \rightarrow M_2SO_4$  were detd. thermogravimetrically:  $NaHSO_4 \cdot H_2O$  205, 370;  $KHSO_4$  210, 395;  $RbHSO_4$  265, 445;  $CaHSO_4$  270, 470; these values indicate the beginnings of the 2 reactions given above. B. Eklund

(-misc. (70))

1/1  
TH

JIRU, P.

Distr: 4E2c

Influence of alkali sulfates on the activity of vanadium pentoxide in the catalytic oxidation of sulfur dioxide. Pavel Jirů, Daša Tomková, Vladimír Jára, and Jarka Wanková (Inst. anorg. Chem., Ústí n. Labem, Czech.). *Z. anorg. u. allgem. Chem.* 303, 121-8 (1990). X-ray diffraction data for different mixts. of  $V_2O_5$  and  $Rb_2SO_4$  or  $Cs_2SO_4$  fused at 450-500° show formation of new compds. of approx. compn.  $V_2O_5 \cdot Rb_2SO_4$  and  $V_2O_5 \cdot Cs_2SO_4$ . The catalytic activity of  $V_2O_5 \cdot M_2SO_4$  (M = alkali metal) prepn. mixed with  $SiO_2$  (V content = 6%) on the oxidn. of  $SO_2$  increases with increasing at. no. of M over the temp. range 420-525°; at 420° the rate const. for the Rb or Cs prepn. is 9 times that for the K prepn. The activation energy is 70-80 kcal. and 30-40 kcal. in lower and higher temp. regions, resp.; the transition temp. between the 2 regions decreases with increasing at. no. of M from 525° (Li) to 400° (Rb or Cs).

Richard H. Jaquith

Z/009/61/000/010/001/003  
E112/E135

AUTHORS: Grubner, Otto, Rálek, Miloš, and Jírů, Pavel

TITLE: Preparation and properties of molecular sieves A

PERIODICAL: Chemický průmysl, No.10, 1961, pp.521-523

TEXT: Molecular sieves A are commercially not available in Czechoslovakia and the authors now describe laboratory methods for their preparation. Procedures are based on available literature. Compounds prepared were: Sieve 4 A (sodium-aluminosilicate), Sieve 5 A (calcium-aluminosilicate) and Sieve 3.8 A (potassium-aluminosilicate). The produced compounds were examined by the following methods. 1) X-ray powder photographs according to Debye—Scherrer. 2) Quantitative analysis ( $Al_2O_3$  and CaO determined with Complexons). 3) Densities (determined by pycnometer with helium and mercury). 4) Absorption properties. Examples of absorbed compounds are listed for each type of molecular sieve. Properties of the domestic and foreign materials were found to be identical. The authors have also undertaken the preparation and study of molecular sieves 10 X and 13 X, details of which will be published in a future paper.

Card 1/2

Preparation and properties of .....

Z/009/61/000/010/001/003  
E112/E135

Acknowledgments are expressed to Messrs. Svoboda, Kučera, Habesberger, Schürer, Černý, Jakubičková, Jirátor and Jiříčková, for their assistance. There are 1 table and 16 references: 6 Soviet-bloc and 10 non-Soviet-bloc. The four most recent English language references read:

Ref.2: R.M. Barrer. British Chem. Eng. 1 (1959).

Ref.4: R.M. Barrer, J.W. Baynham, F.W. Bultitude, W.M. Meier. J. Chem. Soc. 195 (1959).

Ref.7: R.A. Labine, Chemical Engng 104 (1959).

Ref.11: L. Broussard, D.P. Schoemaker. J. Am. Chem. Soc. Vol.82, 1041 (1960).

ASSOCIATION: Ústav fyzikální chemie ČSAV, Praha  
(Institute of Physical Chemistry, ČSAV, Prague)

SUBMITTED: March 28, 1961

Card 2/2

JIRU, Pavel; KUBICA, Ludvik

Stabilized vanadium oxidation catalysts for sulphuric acid production. Chem prum 12 no.5:232-236. My '62.

1. Ustav fyzikalni chemie, Ceskoslovenska akademie ved, Praha and Zavod Dukla-Hrusov, Ostrava.

JIRU, Pavel; GRUBNER, Oto; RALEK, Milos

Preparation and properties of molecular type X sieves.  
Chem prum 12 no.7:355-357 J1 '62.

1. Ustav fyzikalni chemie, Ceskoslovenska akademie ved,  
Praha.

JIRU, P.; NOVAKOVA, J.

Kinetics and mechanisms of exchange reactions of oxygen  $^{18}\text{O}$  with  
oxidation catalysts. Part 1. Coll Cz Chem 28 no.1:1-10 Ja '63.

1. Institute of Physical Chemistry, Czechoslovak Academy of Sciences,  
Prague.

NOVAKOVA, J.; JIRU, P.

Kinetics and mechanism of exchange reactions of oxygen  $^{18}\text{O}$  with oxidation catalysts. Pt.2. Coll Cz Chem 29 no.5:1114-1121  
My '64.

1. Institute of Physical Chemistry, Czechoslovak Academy of Sciences, Prague.



TICHY, Josef; JIRU, Pavel

Apparatus for velocity measurement of the catalytic oxidation of methanol on formaldehyde. Chem lsity 58 no. 4:460-465 Ap '64.

1. Institute of Physical Chemistry, Czechoslovak Academy of Sciences, Prague.

WICHTERLOVA, Blanka; JIRU, Pavel

Kinetics of catalytic oxidation of methanol to formaldehyde on a  $\text{Fe}_2\text{O}_3\text{-MoO}_3$  catalyst. Chem prum 15 no.4:198-202 Ap '65.

1. Institute of Physical Chemistry of the Czechoslovak Academy of Sciences, Prague.

CZECHOSLOVAKIA

JIRU, P.; TICHY, J.; WICHTERLOVA, B.

Institute for Physical Chemistry, (Institut für physikalische Chemie),  
Czechoslovak Academy of Sciences, Prague (for all)

Prague, Collection of Czechoslovak Chemical Communications, No 2, Feb  
1966, pp 674-688

"Kinetics of oxidation of methyl alcohol with formaldehyde on an oxide  
catalyst."

CZECHOSLOVAKIA

BLIZNAKOV, G; JIRU, P; KLISSEVSKI, D

Institute of General and Inorganic Chemistry, Bulgarian  
Academy of Sciences, (Institut für allgemeine und anor-  
genische Chemie, Bulgarische Akademie der Wissenschaften),  
Sofia, Bulgaria. (for all; permanent address Jiru:  
Institute of Physical Chemistry, Czechoslovak Academy of  
Sciences, Prague)

Prague, Collection of Czechoslovak Chemical Communications,  
No 7, July 1966, pp 2995-2997

"Contribution to the study of the kinetics of oxidation of  
methyl alcohols with  $\text{HNO}_2$ - $\text{HNO}_3$  as catalysts."

JIRU, Pavel, inz. dr. (Praha)

Problem of sawn timber drying in combines. Drevo 18 no.11:  
416-422 N°63.

JIRU, ZDENA

✓ Apparatus for measuring the rate of diffusion in porous systems. Emerich Erdős and Zdena Jirů (Vysoká škola chem. technol., Prague). *Chem. Zvesti* 49, 1879-86 (1955).  
 —An app. is described that permits a quick (4-8 hours) measurement of diffusion rate through porous materials with an accuracy of  $\pm 0.1\%$ . Magnetic stirring and conductometric analysis *in situ* are used. The app. is suited to the relative detn. of av. diffusion coeffs. of electrolytes. The activation energy of diffusion of KCl in  $H_2O$  at room temp. is 4350 cal./mol. and is independent of concn. in the range 0-0.1N.  
 E. Erdős

12-1  
 (1)

JIRU, 2

Category: Czechoslovakia/Fitting Out of Laboratories. Instruments, H.  
Their Theory, Construction and Use.

Abs Jour: Referat Zhur-Khimiya, No 9, 1957, 31153

Author : Erdos E., Jiru Z.

Inst : not given

Title : Apparatus for Measuring Diffusion Rate in Porous Systems.

Orig Pub: Sb. chekhosl. khim. rabot, 1956, 21, No 3, 526-534

Abstract: See RZhKhim, 1956, 68884.

Card : 1/1

-14-

CZECHOSLOVAKIA

RAEMACHEN, Rudolf, MVD; JIŘEK, František, MVD.

No affiliation but Hradec Kralove for both

Prague, Veterinarství, No 2 [Feb] 1967, pp 79-83

"Bromthymol peroxide test."

JIRUCHA, A.

"Safety Appliances in Soviet Railroad Traffic." p. 30 (Zeleznice, Vol. 3, no. 2, 1953, Praha)

SO: Monthly List of East European Accessions, Vol. 3, no. 2, Library of Congress, Feb. 1954, Uncl.



JIRUSKA, Karel, inz.

Awards given by the Czechoslovak Academy of Agricultural  
sciences for the solved research tasks. Vestnik CSAZV 9 no.2:  
59-73 '62.

JIRUSKOVA, H.

JIRUSKOVA, H.

Problems of losses in research on nutrition. p. 124 (Vyziva Lidu. Prha. Vol. 9, no. 9, Sept. 1954)

SO: Monthly List of <sup>East</sup>European Accession (SEAL), LC, Vol. 4, No. 6, June 1955, Uncl.

JISA, Vaclav

Mechanical forming by pneumatic elements. Stroj vyr 12 no.7:  
509-511 J1\*64

1. Tesla National Enterprise, Roznov, Plant Elektrosignal,  
Prague.

CZECHOSLOVAKIA/Chemical Technology. Chemical Products and Their Applications. H  
Ceramics. Glass. Binding Materials.  
Concrete. - Binding Materials. Concrete and Other Silicate Construction Materials.

Abs Jour : Ref Zhur-Khimiya, No 6, 1959, 20316

Author : Jiskra, Josef  
Inst :  
Title : Heat Insulating Properties of Slag Pumice Cement.

Orig Pub : Stavba, 1958, 5, No 8, 243-248

Abstract : Physico-chemical mechanical properties are described of slag pumice (SP) (specific weight 2000 kg/m<sup>3</sup>, gram-molecular

Card : 1/3

CZECHOSLOVAKIA/Chemical Technology. Chemical Products and Their Applications. H  
Ceramics. Glass. Binding Materials.  
Concrete. - Binding Materials. Concrete and Other Silicate Construction Materials.

Abs Jour : Ref Zhur-Khimiya, No 6, 1959, 20316

weight without shrinkage of grains 700-980 kg/m<sup>3</sup>, with shrinkage 820-1150 kg/m<sup>3</sup>, stability about 33 kg/cm<sup>3</sup>, water capacity 4-12 percent) and slag pumice cement (SPC) (specific weight 1236-1720 kg/m<sup>3</sup>, coefficient of diffusion 4.7-18.7 kg/m hour mm H<sub>2</sub>O) with thickness of sample 7-20 cm; absorption of H<sub>2</sub>O in a state of equilibrium with a relative moisture of 55-80 percent is significantly lower than in the pumice-tuff and cavitite concretes.

Card : 2/3

14-45

CZECHOSLOVAKIA/Chemical Technology. Chemical Products and Their Applications. H

89258

Z/023/60/000/004/004/004  
A224/A026

9,9110 (1041,1046,1060)

AUTHORS: Hájková, Jaroslava; Jiskra, Miroslav

TITLE: On the Occurrence of the Sporadic E-Region Over Europe

PERIODICAL: Studia Geophysica et Geodaetica, 1960, No. 4, pp. 409 - 415

TEXT: The paper deals with the evaluation of the statistical material on the occurrence of the sporadic E-region over Central Europe. The material was collected between January 1, 1955, and December 31, 1958, by tracing the propagation of short and ultrashort waves (30 - 100 Mc), at distances of 500 to 2,000 km, at the Ionospheric Station of the Geophysical Institute of the Czechoslovak Academy of Sciences in Panská Ves (50°31.8'N-14°34.0'E). The radio broadcast was received by a commercial all-band set, and the TV broadcast by the "Leningrad T-2" set. The observation of the reception conditions was conducted daily by M. Jiskra from 0700 to 1900 hours, local time, and up to 2300 hours, Central European time, under favorable reception conditions. Remarkable is an unusual high E-region activity in the first half of August 1958, especially on the 6th, 8th, 9th, and 10th, although the Perseid shower was not very active as compared with past years, according to the Astronomical Institute of the Czechoslovak Academy of Sciences at Ondřejov. X

Card 1/2

89258

✓

On the Occurrence of the Sporadic E-Region Over Europe

Z/023/60/000/004/004/004  
A224/A026

The maximum occurrence was observed in June in all years. The daily peak activity was observed between 0800 - 1100 and 1500 - 2000 hours. No correlation between the occurrence of the sporadic E-region and the storm activity was established. The paper was reviewed by P. Beckmann. There are 7 figures and 7 references: 3 Czech, 3 English, and 1 German.

ASSOCIATION: Geophysical Institute of the Czechoslovak Academy of Sciences, Boční II, Praha 4 - Spořilov

SUBMITTED: November 21, 1959

Card 2/2

AUTHORS: Jiskra, Z<sup>ENEK</sup>, Ing. and Fleischer, B.

CZECH/34-59-4-2/18

TITLE: High-temperature X-ray Chamber (Vysokoteplotní rentgenová komůrka)

PERIODICAL: Hutnické Listy, 1959, Nr. 4, pp. 280 - 287  
(Czechoslovakia)

ABSTRACT: For studying the microstructure of various substances at elevated temperatures, a high temperature X-ray chamber was designed and built which permits investigation of temperatures of 1 400 °C and even higher. The temperature of the specimens is measured by means of a thermocouple. The applied method of correcting the thermocouple readings by using calibration curves, which were determined by the micro X-ray methods from the dilation of the lattice of chemically pure platinum, is described. Exposures were obtained of chemically pure platinum up to 1 200 °C, of a silver up to 800 °C and of various steels in the temperature range 20 to 1 100 °C with exposure times of 60 to 100 min. The chamber was specifically designed to enable easy mounting of current-type Czech-produced "Mikrometa" X-ray apparatus. The chamber is designed to take specimens

Card1/3

## High-temperature X-ray Chamber

CZECH/34-59-4-2/18

in the form of either a thin rotating wire, a small block or a strip without rotation or with rotation. The specimens are heated in a system consisting of two coaxial cylindrical resistance furnaces with a 3.5 mm high diffraction slot between them; an explicit cross-sectional drawing of the furnace is reproduced in Figure 1. The furnaces are replaceable; they are fitted with platinum-rhodium heating wires for temperatures up to 1 400 °C and for higher temperatures they can be fitted with tantalum heating wires. The entire furnace assembly fits into the film-holder which is capable of taking films of 57.3 or 64 mm dia. (see Figures 3-6). The specimen can be centred by means of a servomotor even when it is in the hot state in vacuum. The electric circuit diagram is shown in Figure 8. The 57.3 mm film is used for rapid determination of the structure. For accurate exposures an assembly with a 190 mm dia. film is used; in this case the film is on the outside of the chamber and any number of exposures can be taken without it being necessary to open the chamber. The

Card2/3 ✓



High-temperature X-ray Chamber

CZECH/34-59-4-2/18

vacuum in the chamber can be maintained within the limits of  $10^{-4}$  to  $10^{-5}$  mm Hg.

There are 13 figures, 32 references, 6 of which are German, 18 English, 2 Soviet and 6 Czech.

ASSOCIATION: Výzkumný ústav hutnictví Železa MHD, Praha  
(Ferrous Metallurgy Research Institute of the  
Ministry of Mining and Metallurgy, Prague) ✓

SUBMITTED: November 17, 1958

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Z/034/60/000/010/005/005  
E073/E535

AUTHORS: Jiskra, Zd., Engineer and Kejha, V.

TITLE: Industrial Furnace

PERIODICAL: Hutnické listy, 1960, No.10, p.815

TEXT: Patent specification Class 18b, 21/02; 18c, 9/01; 40c, 16/01; 80c, 3; 80c, 7; PV 4757-59 dated August 15, 1959. The subject of the invention is a furnace in which a hot plasma stream from a plasma burner is used as a source of heat; this plasma stream heats the inside of the furnace including the charge. Plasma, a very hot ionized gas formed by the passage of gases or steam (usually nitrogen, hydrogen or argon) through an electric arc in the combustion chamber, is the carrier of the high temperature. The arc is usually between the tungsten cathode and a water-cooled copper anode. A burner with a flame length of about 20 cm and an operating temperature of about 16 000°C consumes 90A at a voltage of 60 V and thus the operating costs are low. A sketch of the furnace is reproduced, Fig.3; in this furnace the hot plasma stream 2 emanating from the burner 1 heats the path 3 in the vessel 4, which is made to rotate about its

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Industrial Furnace

vertical axis, whilst the burner itself carries out a swivelling movement. There is 1 figure.

(Note: This is a complete translation)

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S/137/62/000/006/010/163  
A006/A101

AUTHORS: Jiskra, Zdeněk; Kejha, Viktor

TITLE: An industrial furnace

PERIODICAL: Referativnyy zhurnal, Metallurgiya, no. 6, 1962, 11, abstract 6B63 P  
(Czechoslov. patent no. 98527, 15.02.61)

TEXT: Three designs are proposed for industrial furnaces intended for metal melting or annealing of parts; the heat source is plasma, i.e. a very hot ionized gas flow ( $N_2$ , argon, air) ejected from a plasma torch. The heat flow is formed by the passage of gas through an electric arc between a tungsten cathode and a water-cooled tungsten or Cu-anode, placed in a water-cooled chamber. Peculiarities of the proposed furnace designs are either rotation or rocking of one or several plasma torches, for the purpose of a uniform heating of the molten charge.

S. Glebov

[Abstracter's note: Complete translation]

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